

Listing of Claims:

1. (Currently amended) A fuel pump comprising:
a driven impeller facing a casing part, with rings of guide vanes arranged in the impeller concentrically enclosing one another and defining blade chambers;
partially annular fuel feed ducts facing the rings of guide vanes in the casing part;
outlet ducts connected to the partially annular ducts, the rings of the blade chambers and the partially annular ducts forming a radial inner delivery chamber and a radial outer delivery chamber;
and a connecting duct connecting the radial outer delivery chamber to the radially radial inner delivery chamber configured so the fuel flows from the radial outer delivery chamber to the radial inner delivery chamber, connections of the connecting duct connect to the radial inner and the radial outer delivery chambers, the connections being laid out so that at a rated speed of the impeller a same pressure prevails on both connections.

2. (Previously Presented) The fuel pump as claimed in claim 1, wherein the connecting duct is arranged in the casing part and connects partially annular ducts.

3. (Previously Presented) The fuel pump as claimed in claim 1 or 2, wherein the connecting duct comprises of a groove arranged in the casing part.

4. (Previously Presented) The fuel pump as defined in claim 1, wherein the connecting duct points away from the radial outer delivery chamber towards the radial inner delivery chamber viewed in a direction of rotation of the impeller.

5. (Cancelled)

6. (Previously Presented) The fuel pump as defined in claim 2, wherein an initial section of the connecting duct connected to the radial outer, partially annular duct is inclined by a designated angle α to the straight line taken through the axis of rotation of the impeller.

7. (Previously Presented) The fuel pump as defined in claim 2, wherein a terminal section of the connecting duct opening into the radial inner, partially annular duct is inclined by a designated angle β to the straight line taken through the axis of rotation of the impeller.

8. (Previously Presented) The fuel pump as defined in claim 6 or 7, wherein at least one of the angle α or the angle β is approximately 45° .

9. (Previously Presented) The fuel pump as defined in claim 2, wherein the connecting duct has a middle section arranged concentrically between the partially annular ducts.

10. (Previously Presented) The fuel pump as defined in claim 1, wherein the impeller has a smooth surface in its area facing the connecting duct.

11. (Previously Presented) The fuel pump as defined in claim 1, wherein the connecting duct is in the form of a groove is deeper than it is wide.

12. (Previously Presented) A fuel feed system for an internal combustion engine of a motor vehicle having a fuel pump with an impeller for drawing fuel from a fuel tank and delivering the fuel to the internal combustion engine, the pump comprising:

a radial outer delivery chamber that is connected to the internal combustion engine;

a radial inner delivery chamber that is connected to a jet pump arranged inside the fuel tank;

and

a connecting duct connecting the radial outer delivery chamber to the radial inner delivery chamber.

13. (Previously Presented) The fuel feed system as defined in claim 12, further comprising a control device for regulating a power output of an electric motor driving the impeller.

14. (Currently Amended) The fuel feed system as defined in claim 12, wherein a ~~the~~ control device regulates a ~~the~~ power output based in part on fuel demand of the internal combustion engine.

15. (Previously Presented) A fuel pump comprising:
a driven impeller facing a casing part, with rings of guide vanes arranged in the impeller concentrically enclosing one another and defining blade chambers;

partially annular fuel feed ducts facing the rings of guide vanes in the casing part;

outlet ducts connected to the partially annular ducts, the rings of the blade chambers and the partially annular ducts forming a radial inner delivery chamber and a radial outer delivery chamber;
and

a connecting duct connecting the radial outer delivery chamber to the radial inner delivery chamber,

wherein fuel is delivered from the radial outer delivery chamber to the radial inner delivery chamber when pressure in the radial inner chamber falls.

16. (Previously Presented) The fuel pump as defined in claim 15, wherein the connecting duct points away from the radial outer delivery chamber towards the radial inner delivery chamber viewed in a direction of rotation of the impeller.

17. (Previously Presented) The fuel feed system as defined in claim 12, wherein fuel is delivered from the radial outer delivery chamber to the radial inner delivery chamber when pressure in the radial inner chamber falls.

18. (Previously Presented) The fuel pump as defined in claim 17, wherein the connecting duct points away from the radial outer delivery chamber towards the radial inner delivery chamber viewed in a direction of rotation of the impeller.

19. (Previously Presented) The fuel pump as defined in claim 17, further comprising:
a driven impeller facing a casing part, with rings of guide vanes arranged in the impeller concentrically enclosing one another and defining blade chambers;

partially annular fuel feed ducts facing the rings of guide vanes in the casing part; and

outlet ducts connected to the partially annular ducts, the rings of the blade chambers and the partially annular ducts forming the radial inner delivery chamber and the radial outer delivery chamber.